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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/789,987	03/02/2004	Yong-Ho Jang	053785-5173	9670	
	7590 07/06/2007 WIS & BOCKIUS LLP		EXAMINER		
1111 PENNSY	LVANIA AVENUE NW		FATAHI YAR	FATAHI YAR, MAHMOUD	
WASHINGTON, DC 20004			ART UNIT	PAPER NUMBER	
	· .		2629		
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•			07/06/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary 10/789,987			Application	No.	Applicant(s)				
## Examiner Art Unit 2629 The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In or overn, however, may a reply be timely filled when XI, 60 MONTHS from the mailing date of the communication. - Failure to reply within the set or extended price of the provisions of 37 CFR 1.136(a). In or overn, however, may a reply be timely filled, after the provisions of 37 CFR 1.136(a). In or overn, however, may a reply be timely filled, after sheep in the provisions of 37 CFR 1.136(a). In or overn, however, may a reply be timely filled, after sheep in the set or extended price of the communication. - Failure to reply within the set or extended price of the provision of 37 CFR 1.136(a). In order to become ABANDONED (38 U.S.C. § 133). Any reply received by the Office test then three mentings date of this communication, own if timely filled, may reduce any counterplace test may be set the mail to the mailing date of this communication, own if timely filled, may reduce any counterplace test of the communication. - Failure to reply within the set or extended price of the communication. - Failure to reply within the set or extended price of the communication. - Failure to reply within the set or extended price of the communication. - Failure to reply within the set or extended price of the communication. - Failure to reply within the set or extended price of the communication. - Failure to reply within the set or extended price of the main fill the price of the communication. - Failure to reply within the set or extended price of the certified copies of the price of the certified copies of the price of the certified									
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3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application	1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)			Paper No(s)/Mail Date					

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DETAILED ACTION

- 1. Claims 9 and 17 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. The signal modulating unit for generating a second data enable signal by using the first data enable signal is critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). Thus, claims 9 and 17 are not enabling because the specification requires the use of a signal modulator for generating a second data enable signal having a first and a second time interval wherein the second time interval is less than about 80% of the single frame time.
- 2. Claims 1-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 8, there is no antecedent basis for "the data signals". In claim 9, line 5, there is no antecedent basis for "the data signals". In claim 12, line 9, there is no antecedent basis for "the data signals". In claim 17, line 5, again there is no antecedent basis "the data signals". Claim 9 and 17, as a whole, are incomplete because according to the specification, in order for the second time interval of the data enable signal to be less than 80% of a single frame time, a signal modulator is required to modulate the data enable signal to generate a second data enable signal having a shorter second time interval. Correction and/or clarification is required.

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3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 9-11 and 17-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Furukoshi(6,791,518B2).

Furukoshi discloses a method and apparatus for driving a liquid crystal display device comprising an integrated graphic interface unit and a timing controller(13) for generating a data enable signal having a first and a second time intervals and for generating data signals by using the data enable signals wherein the data signals are input to the pixel region during the second time interval and the second time interval is less than about 80% of a single frame time(see figure 9).

- 5. Claims 1 and 12 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 6. Claims 2-8 and 13-16 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Shu et al, Yamaguchi, Ito, Oohira, Nukiyama et al, Shin,

Terashima et al, and Yamaguchi are made of record to show various types of driving an LCD display device by utilizing a data enable signal.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Fatahiyar whose telephone number is (571)272-7688. The examiner can normally be reached on Monday-Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AICHARD HJERPE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

M. Fatahiyar

June 23, 2007